

Express Mail No.: EV231271511US
Date of Deposit: May 20, 2003

RECEIVED
MAY 22 2003
Page 1 of 1
TECH CENTER 1600/2900



Please type a plus sign (+) in this box



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/038,854
	Filing Date	12/31/01
	First Named Inventor	Spytek
	Group Art Unit	4616-1631
	Examiner Name	Not Yet Assigned LY
	Attorney Docket Number	21402-230

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS					
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
COL	C278	Anderson, et al. (1991). "Cloning and expression of cDNA encoding human lysosomal acid lipase/cholesteryl ester hydrolase." <i>JBC</i> 266(33): 22479-84.
	C279	International Search Report for PCT/US01/49876, mailed March 3, 2003.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	11/06/03
--------------------	--	-----------------	----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

Express Mail No. EV058075 US
Date of Deposit: April 11, 2002

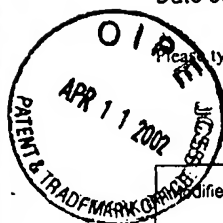
RECEIVED
Page 1 of 11

APR 18 2002

TECH CENTER 1600/2900

Approved for use through 9/30/00 OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Please type a plus sign (+) in this box



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	10/038,854
	Filing Date	12/31/01
	First Named Inventor	Spytek
	Group Art Unit	1616 1631
	Examiner Name	Not Yet Assigned Ly
	Attorney Docket Number	21402-230

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS						
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
CPL	C1	Amouyel, et al. (1994). "The apolipoprotein E alleles as major susceptibility factors for Creutzfeldt-Jakob disease. The French Research Group on Epidemiology of Human Spongiform Encephalopathies." <i>Lancet</i> 344(8933): 1315-8.
	C2	Anchors, et al. (1986). "ApoE deficiency: markedly decreased levels of cellular ApoE mRNA." <i>Biochem Biophys Res Commun</i> 134(2): 937-43.
	C3	Appella, et al. (1988). "Structure and function of epidermal growth factor-like regions in proteins." <i>FEBS Lett</i> 231(1): 1-4.
	C4	Asada, et al. (1996). "ApoE epsilon 4 allele and cognitive decline in patients with Alzheimer's disease." <i>Neurology</i> 47(2): 603.
	C5	Barker, et al. (1986). "[Similar domains in different proteins: detection and significance]." <i>Tanpakushitsu Kakusan Koso</i> (29 Suppl): 54-68.
	C6	Baumgartner and Chiquet-Ehrismann (1993). "Tena, a Drosophila gene related to tenascin, shows selective transcript localization." <i>Mech Dev</i> 40(3): 165-76.
	C7	Baumgartner, et al. (1994). "Tenm, a Drosophila gene related to tenascin, is a new pair-rule gene." <i>Embo J</i> 13(16): 3728-40.
	C8	Bennett, et al. (1995). "Evidence that the APOE locus influences rate of disease progression in late onset familial Alzheimer's Disease but is not causative." <i>Am J Med Genet</i> 60(1): 1-6.
	C9	Bersot, et al. (1983). "Cholesteryl ester accumulation in mouse peritoneal macrophages induced by beta-migrating very low density lipoproteins from patients with atypical dysbetalipoproteinemia." <i>J Clin Invest</i> 72(3): 1024-33.
	C10	Betard, et al. (1994). "Apo E allele frequencies in Alzheimer's disease, Lewy body dementia, Alzheimer's disease with cerebrovascular disease and vascular dementia." <i>Neuroreport</i> 5(15): 1893-6.
	C11	Bickebolli r, et al. (1997). "Apolipoprotein E and Alzheimer disease: genotype-specific risks by age and sex." <i>Am J Hum Genet</i> 60(2): 439-46.
	C12	Blennow, et al. (1994). "Cerebrospinal fluid apolipoprotein E is reduced in Alzheimer's disease." <i>Neuroreport</i> 5(18): 2534-6.

RECEIVED
Page 2 of 11
APR 18 2002

TECH CENTER 1600/2900

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
COL	C13	Blesa, et al. (1996). "High apolipoprotein E epsilon 4 allele frequency in age-related memory decline." <i>Ann Neurol</i> 39(4): 548-51.
	C14	Blomquist, et al. (1984). "Vaccinia virus 19-kilodalton protein: relationship to several mammalian proteins, including two growth factors." <i>Proc Natl Acad Sci U S A</i> 81(23): 7363-7.
	C15	Boerwinkle and Utermann (1988). "Simultaneous effects of the apolipoprotein E polymorphism on apolipoprotein E, apolipoprotein B, and cholesterol metabolism." <i>Am J Hum Genet</i> 42(1): 104-12.
	C16	Boisvert, et al. (1995). "Treatment of severe hypercholesterolemia in apolipoprotein E-deficient mice by bone marrow transplantation." <i>J Clin Invest</i> 96(2): 1118-24.
	C17	Borgaonkar, et al. (1993). "Linkage of late-onset Alzheimer's disease with apolipoprotein E type 4 on chromosome 19." <i>Lancet</i> 342(8871): 625.
	C18	Breslow, et al. (1982). "Studies of familial type III hyperlipoproteinemia using as a genetic marker the apoE phenotype E2/2." <i>J Lipid Res</i> 23(8): 1224-35.
	C19	Brown and Goldstein (1983). "Lipoprotein receptors in the liver. Control signals for plasma cholesterol traffic." <i>J Clin Invest</i> 72(3): 743-7.
	C20	Brown and Goldstein (1992). "Koch's postulates for cholesterol." <i>Cell</i> 71(2): 187-8.
	C21	Brown, et al. (1981). "Regulation of plasma cholesterol by lipoprotein receptors." <i>Science</i> 212(4495): 628-35.
	C22	Chappell (1989). "High receptor binding affinity of lipoproteins in atypical dysbetalipoproteinemia (type III hyperlipoproteinemia)." <i>J Clin Invest</i> 84(6): 1906-15.
	C23	Cladaras, et al. (1987). "The molecular basis of a familial apoE deficiency. An acceptor splice site mutation in the third intron of the deficient apoE gene." <i>J Biol Chem</i> 262(5): 2310-5.
	C24	Corbo and Scacchi (1999). "Apolipoprotein E (APOE) allele distribution in the world. Is APOE*4 a 'thrifty' allele?" <i>Ann Hum Genet</i> 63(Pt 4): 301-10.
	C25	Corder, et al. (1993). "Gene dose of apolipoprotein E type 4 allele and the risk of Alzheimer's disease in late onset families." <i>Science</i> 261(5123): 921-3.
	C26	Corder, et al. (1994). "Protective effect of apolipoprotein E type 2 allele for late onset Alzheimer disease." <i>Nat Genet</i> 7(2): 180-4.
	C27	D'Arcangelo, et al. (1995). "A protein related to extracellular matrix proteins deleted in the mouse mutant reeler." <i>Nature</i> 374(6524): 719-23.
	C28	Das, et al. (1985). "Isolation, characterization, and mapping to chromosome 19 of the human apolipoprotein E gene." <i>J Biol Chem</i> 260(10): 6240-7.
	C29	Davis (1990). "The many faces of epidermal growth factor repeats." <i>New Biol</i> 2(5): 410-9.
	C30	de Knijff, et al. (1991). "Familial dysbetalipoproteinemia associated with apolipoprotein E3- Leiden in an extended multigeneration pedigree." <i>J Clin Invest</i> 88(2): 643-55.
	C31	Doolittle, et al. (1984). "Computer-based characterization of epidermal growth factor precursor." <i>Nature</i> 307(5951): 558-60.
	C32	Egensperger, et al. (1996). "The apolipoprotein E epsilon 4 allele in Parkinson's disease with Alzheimer lesions." <i>Biochem Biophys Res Commun</i> 224(2): 484-6.
	C33	Erickson (1993). "Tenascin-C, tenascin-R and tenascin-X: a family of talented proteins in search of functions." <i>Curr Opin Cell Biol</i> 5(5): 869-76.
	C34	Eto, et al. (1989). "Increased frequencies of apolipoprotein epsilon 2 and epsilon 4 alleles in patients with ischemic heart disease." <i>Clin Genet</i> 36(3): 183-8.
	C35	Farrer, et al. (1995). "Allele epsilon 4 of apolipoprotein E shows a dose effect on age at onset of Pick disease." <i>Exp Neurol</i> 136(2): 162-70.
	C36	Ferraris, et al. (1994). "Cloning, genomic organization, and osmotic response of the aldose reductase gene." <i>Proc Natl Acad Sci U S A</i> 91(22): 10742-6.
	C37	Feussner, et al. (1996). "Unusual xanthomas in a young patient with heterozygous familial

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
CM		hypercholesterolemia and type III hyperlipoproteinemia." <i>Am J Med Genet</i> 65(2): 149-54.
	C38	Fleming, et al. (1997). "Serrate-mediated activation of Notch is specifically blocked by the product of the gene fringe in the dorsal compartment of the Drosophila wing imaginal disc." <i>Development</i> 124(15): 2973-81.
	C39	Friedman, et al. (1999). "Apolipoprotein E-epsilon4 genotype predicts a poor outcome in survivors of traumatic brain injury." <i>Neurology</i> 52(2): 244-8.
	C40	Frisoni, et al. (1994). "Apolipoprotein E epsilon 4 allele frequency in vascular dementia and Alzheimer's disease." <i>Stroke</i> 25(8): 1703-4.
	C41	Garlepp, et al. (1995). "Apolipoprotein E epsilon 4 in inclusion body myositis." <i>Ann Neurol</i> 38(6): 957-9.
	C42	Gedde-Dahl, et al. (1984). "The locus for apolipoprotein E (apoE) is close to the Lutheran (Lu) blood group locus on chromosome 19." <i>Hum Genet</i> 67(2): 178-82.
	C43	GenBank Accession Number: A13997 (22-FEB-1994).
	C44	GenBank Accession Number: A42845 (06-MAR-1997).
	C45	GenBank Accession Number: A55548 (17-MAR-1999).
	C46	GenBank Accession Number: AAA51747 (31-OCT-1994).
	C47	GenBank Accession Number: AAK58523 (02-JUN-2001).
	C48	GenBank Accession Number: AB015050 (06-FEB-1999).
	C49	GenBank Accession Number: AB017139 (06-APR-1999).
	C50	GenBank Accession Number: AB025412 (08-MAY-1999).
	C51	GenBank Accession Number: AB040888 (22-FEB-2001).
	C52	GenBank Accession Number: AF064748 (18-JUN-1998).
	C53	GenBank Accession Number: AF263242 (02-JUN-2001).
	C54	GenBank Accession Number: AK022708 (29-SEP-2000).
	C55	GenBank Accession Number: AK024685 (29-SEP-2000).
	C56	GenBank Accession Number: BAA36169 (06-FEB-1999).
	C57	GenBank Accession Number: BAA84070 (06-SEP-1999).
	C58	GenBank Accession Number: BAB14192 (29-SEP-2000).
	C59	GenBank Accession Number: BAB72181 (23-NOV-2001).
	C60	GenBank Accession Number: BC002862 (12-JUL-2001).
	C61	GenBank Accession Number: CAA00205 (05-MAR-1993).
	C62	GenBank Accession Number: CAA00975 (26-NOV-1993).
	C63	GenBank Accession Number: CAA01607 (02-MAR-1995).
	C64	GenBank Accession Number: CAA03490 (05-MAR-1998).
	C65	GenBank Accession Number: CAC88580 (28-SEP-2001).
	C66	GenBank Accession Number: CAC88658 (28-SEP-2001).
	C67	GenBank Accession Number: I53872 (04-SEP-1998).
	C68	GenBank Accession Number: M27875 (06-MAR-1995).
	C69	GenBank Accession Number: M83670 (27-APR-1993).
	C70	GenBank Accession Number: M89902 (27-APR-1993).
	C71	GenBank Accession Number: O00744 (15-JUL-1999).
	C72	GenBank Accession Number: O60664 (20-AUG-2001).
	C73	GenBank Accession Number: P00740 (16-OCT-2001).
	C74	GenBank Accession Number: P02647 (16-OCT-2001).
	C75	GenBank Accession Number: P07098 (16-OCT-2001).

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
CA	C76	GenBank Accession Number: P15568 (30-MAY-2000).
	C77	GenBank Accession Number: P22748 (16-OCT-2001).
	C78	GenBank Accession Number: P29147 (01-MAR-2002).
	C79	GenBank Accession Number: P38571 (15-JUL-1999).
	C80	GenBank Accession Number: P48283 (16-OCT-2001).
	C81	GenBank Accession Number: P48284 (16-OCT-2001).
	C82	GenBank Accession Number: P48614 (30-MAY-2000).
	C83	GenBank Accession Number: P49085 (01-MAR-2002).
	C84	GenBank Accession Number: P51178 (16-OCT-2001).
	C85	GenBank Accession Number: P52895 (15-FEB-2000).
	C86	GenBank Accession Number: P70701 (16-OCT-2001).
	C87	GenBank Accession Number: Q02338 (01-MAR-2002).
	C88	GenBank Accession Number: Q04828 (01-MAR-2002).
	C89	GenBank Accession Number: Q13449 (16-OCT-2001).
	C90	GenBank Accession Number: Q64444 (16-OCT-2001).
	C91	GenBank Accession Number: Q95323 (16-OCT-2001).
	C92	GenBank Accession Number: Q98919 (16-OCT-2001).
	C93	GenBank Accession Number: S41408 (18-JUN-1999).
	C94	GenBank Accession Number: U05598 (20-AUG-1994).
	C95	GenBank Accession Number: U68535 (27-NOV-2001).
	C96	GenBank Accession Number: U81787 (05-JUL-2001).
	C97	GenBank Accession Number: X07496 (26-APR-1993).
	C98	GenBank Accession Number: X73889 (10-MAR-2001).
CA	C99	Gerdes, et al. (1996). "The apolipoprotein E polymorphism in Greenland Inuit in its global perspective." <i>Hum Genet</i> 98(5): 546-50.
	C100	Gerdes, et al. (1992). "Apolipoprotein E polymorphism in a Danish population compared to findings in 45 other study populations around the world." <i>Genet Epidemiol</i> 9(3): 155-67.
	C101	Ghiselli, et al. (1981). "Type III hyperlipoproteinemia associated with apolipoprotein E deficiency." <i>Science</i> 214(4526): 1239-41.
	C102	Greenberg, et al. (1995). "Apolipoprotein E epsilon 4 and cerebral hemorrhage associated with amyloid angiopathy." <i>Ann Neurol</i> 38(2): 254-9.
	C103	Greenberg, et al. (1998). "Association of apolipoprotein E epsilon2 and vasculopathy in cerebral amyloid angiopathy." <i>Neurology</i> 50(4): 961-5.
	C104	Gregg, et al. (1981). "Type III hyperlipoproteinemia: defective metabolism of an abnormal apolipoprotein E." <i>Science</i> 211(4482): 584-6.
	C105	Gregg, et al. (1983). "Apolipoprotein E alleles in severe hypertriglyceridaemia." <i>Lancet</i> 1(8320): 353.
	C106	Growdon, et al. (1996). "Apolipoprotein E genotype does not influence rates of cognitive decline in Alzheimer's disease." <i>Neurology</i> 47(2): 444-8.
	C107	Grundemann, et al. (1994). "Drug excretion mediated by a new prototype of polyspecific transporter." <i>Nature</i> 372(6506): 549-52.
	C108	Harrington, et al. (1995). "Apolipoprotein E type epsilon 4 allele frequency is increased in patients with schizophrenia." <i>Neurosci Lett</i> 202(1-2): 101-4.
	C109	Hazzard, et al. (1981). "Genetic transmission of isoapolipoprotein E phenotypes in a large kindred: relationship to dysbetalipoproteinemia and hyperlipidemia." <i>Metabolism</i> 30(1): 79-88.
	C110	Holtzman, et al. (1999). "Expression of human apolipoprotein E reduces amyloid-beta deposition in a

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
ms		mouse model of Alzheimer's disease." <i>J Clin Invest</i> 103(6): R15-R21.
	C111	Holtzman, et al. (2000). "Apolipoprotein E isoform-dependent amyloid deposition and neuritic degeneration in a mouse model of Alzheimer's disease." <i>Proc Natl Acad Sci U S A</i> 97(6): 2892-7.
	C112	Houlden, et al. (1998). "ApoE genotype is a risk factor in nonpresenilin early-onset Alzheimer's disease families." <i>Am J Med Genet</i> 81(1): 117-21.
	C113	Houlston, et al. (1989). "Apolipoprotein (apo) E genotypes by polymerase chain reaction and allele-specific oligonucleotide probes: no detectable linkage disequilibrium between apo E and apo CII." <i>Hum Genet</i> 83(4): 364-8.
	C114	Humphries, et al. (1984). "The gene for apolipoprotein C-II is closely linked to the gene for apolipoprotein E on chromosome 19." <i>Clin Genet</i> 26(5): 389-96.
	C115	Hyman, et al. (1996). "Apolipoprotein E epsilon4/4 in a neuropathologically normal very elderly individual." <i>Arch Neurol</i> 53(3): 215.
	C116	Hyman, et al. (1995). "Quantitative analysis of senile plaques in Alzheimer disease: observation of log-normal size distribution and molecular epidemiology of differences associated with apolipoprotein E genotype and trisomy 21 (Down syndrome)." <i>Proc Natl Acad Sci U S A</i> 92(8): 3586-90.
	C117	Jagadeeswaran, et al. (1984). "Isolation and characterization of human factor IX cDNA: identification of Taq I polymorphism and regional assignment." <i>Somat Cell Mol Genet</i> 10(5): 465-73.
	C118	Jez, et al. (1997). "Comparative anatomy of the aldo-keto reductase superfamily." <i>Biochem J</i> 326(Pt 3): 625-36.
	C119	Joutel, et al. (1997). "Strong clustering and stereotyped nature of Notch3 mutations in CADASIL patients." <i>Lancet</i> 350(9090): 1511-5.
	C120	Kamboh, et al. (1995). "APOE*4-associated Alzheimer's disease risk is modified by alpha 1-antichymotrypsin polymorphism." <i>Nat Genet</i> 10(4): 486-8.
	C121	Kashyap, et al. (1995). "Apolipoprotein E deficiency in mice: gene replacement and prevention of atherosclerosis using adenovirus vectors." <i>J Clin Invest</i> 96(3): 1612-20.
	C122	Kawamata, et al. (1994). "Apolipoprotein E polymorphism in Japanese patients with Alzheimer's disease or vascular dementia." <i>J Neurol Neurosurg Psychiatry</i> 57(11): 1414-6.
	C123	Kehoe, et al. (1999). "Age of onset in Huntington disease: sex specific influence of apolipoprotein E genotype and normal CAG repeat length." <i>J Med Genet</i> 36(2): 108-11.
	C124	Kekuda, et al. (1998). "Cloning and functional characterization of a potential-sensitive, polyspecific organic cation transporter (OCT3) most abundantly expressed in placenta." <i>J Biol Chem</i> 273(26): 15971-9.
	C125	Kurosaka, et al. (1991). "Apolipoprotein E deficiency with a depressed mRNA of normal size." <i>Atherosclerosis</i> 88(1): 15-20.
	C126	Kurz, et al. (1996). "Apolipoprotein E epsilon 4 allele, cognitive decline, and deterioration of everyday performance in Alzheimer's disease." <i>Neurology</i> 47(2): 440-3.
	C127	Kushwaha, et al. (1977). "Type III hyperlipoproteinemia: paradoxical hypolipidemic response to estrogen." <i>Ann Intern Med</i> 87(5): 517-25.
	C128	Lambert, et al. (2000). "Independent association of an APOE gene promoter polymorphism with increased risk of myocardial infarction and decreased APOE plasma concentrations-the ECTIM study." <i>Hum Mol Genet</i> 9(1): 57-61.
	C129	Lannfelt, et al. (1995). "Apolipoprotein epsilon 4 allele in Swedish twins and siblings with Alzheimer disease." <i>Alzheimer Dis Assoc Disord</i> 9(3): 166-9.
	C130	Levine, et al. (1994). "Odd Oz: a novel Drosophila pair rule gene." <i>Cell</i> 77(4): 587-98.
	C131	Levine, et al. (1997). "Expression of the pair-rule gene odd Oz (odz) in imaginal tissues." <i>D v Dyn</i> 209(1): 1-14.
	C132	L vy and Morganroth (1977). "Familial type III hyperlipoproteinemia." <i>Ann Intern Med</i> 87(5): 625-8.
	C133	Levy-Lahad, et al. (1995). "Apolipoprotein E genotypes and age of onset in early-onset familial

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
<i>OK</i>		Alzheimer's disease." <i>Ann Neurol</i> 38(4): 678-80.
	C134	Linton, et al. (1995). "Prevention of atherosclerosis in apolipoprotein E-deficient mice by bone marrow transplantation." <i>Science</i> 267(5200): 1034-7.
	C135	Lippa, et al. (1995). "Apolipoprotein E genotype and Lewy body disease." <i>Neurology</i> 45(1): 97-103.
	C136	Lucotte, et al. (1994). "Apolipoprotein E-epsilon 4 allele doses in late-onset Alzheimer's disease." <i>Ann Neurol</i> 36(4): 681-2.
	C137	Lusis, et al. (1986). "Regional mapping of human chromosome 19: organization of genes for plasma lipid transport (APOC1, -C2, and -E and LDLR) and the genes C3, PEPCD, and GPI." <i>Proc Natl Acad Sci U S A</i> 83(11): 3929-33.
	C138	Mabuchi, et al. (1989). "A young type III hyperlipoproteinemic patient associated with apolipoprotein E deficiency." <i>Metabolism</i> 38(2): 115-9.
	C139	Mahley (1988). "Apolipoprotein E: cholesterol transport protein with expanding role in cell biology." <i>Science</i> 240(4852): 622-30.
	C140	Marder, et al. (1994). "The apolipoprotein epsilon 4 allele in Parkinson's disease with and without dementia." <i>Neurology</i> 44(7): 1330-1.
	C141	Marks, et al. (1992). "Molecular cloning and characterization of (R)-3-hydroxybutyrate dehydrogenase from human heart." <i>J Biol Chem</i> 267(22): 15459-63.
	C142	Masliyah, et al. (1995). "Neurodegeneration in the central nervous system of apoE-deficient mice." <i>Exp Neurol</i> 136(2): 107-22.
	C143	McCarron, et al. (1999). "APOE genotype as a risk factor for ischemic cerebrovascular disease: a meta-analysis." <i>Neurology</i> 53(6): 1308-11.
	C144	Meyer, et al. (1998). "APOE genotype predicts when--not whether--one is predisposed to develop Alzheimer disease." <i>Nat Genet</i> 19(4): 321-2.
	C145	Mui, et al. (1995). "Apolipoprotein E epsilon 4 allele is not associated with earlier age at onset in amyotrophic lateral sclerosis." <i>Ann Neurol</i> 38(3): 460-3.
	C146	Myers, et al. (1996). "Apolipoprotein E epsilon4 association with dementia in a population- based study: The Framingham study." <i>Neurology</i> 46(3): 673-7.
	C147	Nakayama, et al. (1998). "Identification of high-molecular-weight proteins with multiple EGF-like motifs by motif-trap screening." <i>Genomics</i> 51(1): 27-34.
	C148	Nalbantoglu, et al. (1994). "Predictive value of apolipoprotein E genotyping in Alzheimer's disease: results of an autopsy series and an analysis of several combined studies." <i>Ann Neurol</i> 36(6): 889-95.
	C149	Nicoll, et al. (1995). "Apolipoprotein E epsilon 4 allele is associated with deposition of amyloid beta-protein following head injury." <i>Nat Med</i> 1(2): 135-7.
	C150	Nusslein-Volhard and Wieschaus (1980). "Mutations affecting segment number and polarity in Drosophila." <i>Nature</i> 287(5785): 795-801.
	C151	O'Donnell, et al. (2000). "Apolipoprotein E genotype and the risk of recurrent lobar intracerebral hemorrhage." <i>N Engl J Med</i> 342(4): 240-5.
	C152	Okuda, et al. (1996). "cDNA cloning and functional expression of a novel rat kidney organic cation transporter, OCT2." <i>Biochem Biophys Res Commun</i> 224(2): 500-7.
	C153	Olaisen, et al. (1982). "The locus for apolipoprotein E (apoE) is linked to the complement component C3 (C3) locus on chromosome 19 in man." <i>Hum Genet</i> 62(3): 233-6.
	C154	Olichney, et al. (1996). "The apolipoprotein E epsilon 4 allele is associated with increased neuritic plaques and cerebral amyloid angiopathy in Alzheimer's disease and Lewy body variant." <i>Neurology</i> 47(1): 190-6.
	C155	O'Malley and Illingworth (1992). "Apolipoprotein epsilon 4 and coronary artery disease." <i>Lancet</i> 340(8831): 1350-1.
	C156	OMIM Accession Number: 164820 (06/02/1986).

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
a	C157	OMIM Accession Number: 600512 (05/03/1995).
	C158	OMIM Accession Number: 603399 (01/05/1999).
	C159	OMIM Accession Number: 603490 (02/04/1999).
	C160	OMIM Accession Number: 604031 (07/20/1999).
	C161	Oohashi, et al. (1999). "Mouse ten-m/Odz is a new family of dimeric type II transmembrane proteins expressed in many tissues." <i>J Cell Biol</i> 145(3): 563-77.
	C162	Osuntokun, et al. (1995). "Lack of an association between apolipoprotein E epsilon 4 and Alzheimer's disease in elderly Nigerians." <i>Ann Neurol</i> 38(3): 463-5.
	C163	Payami, et al. (1997). "A prospective study of cognitive health in the elderly (Oregon Brain Aging Study): effects of family history and apolipoprotein E genotype." <i>Am J Hum Genet</i> 60(4): 948-56.
	C164	Payami, et al. (1996). "Gender difference in apolipoprotein E-associated risk for familial Alzheimer disease: a possible clue to the higher incidence of Alzheimer disease in women." <i>Am J Hum Genet</i> 58(4): 803-11.
	C165	Payne, et al. (1992). "Apolipoprotein epsilon 4 and coronary artery disease." <i>Lancet</i> 340(8831): 1350.
	C166	Piedrahita, et al. (1992). "Generation of mice carrying a mutant apolipoprotein E gene inactivated by gene targeting in embryonic stem cells." <i>Proc Natl Acad Sci U S A</i> 89(10): 4471-5.
	C167	Plump, et al. (1992). "Severe hypercholesterolemia and atherosclerosis in apolipoprotein E- deficient mice created by homologous recombination in ES cells." <i>Cell</i> 71(2): 343-53.
	C168	Poirier (1994). "Apolipoprotein E in animal models of CNS injury and in Alzheimer's disease." <i>Trends Neurosci</i> 17(12): 525-30.
	C169	Poirier, et al. (1993). "Apolipoprotein E polymorphism and Alzheimer's disease." <i>Lancet</i> 342(8873): 697-9.
	C170	Poirier, et al. (1995). "Apolipoprotein E4 allele as a predictor of cholinergic deficits and treatment outcome in Alzheimer disease." <i>Proc Natl Acad Sci U S A</i> 92(26): 12260-4.
	C171	Polvikoski, et al. (1995). "Apolipoprotein E, dementia, and cortical deposition of beta-amyloid protein." <i>N Engl J Med</i> 333(19): 1242-7.
	C172	Raber, et al. (2000). "Apolipoprotein E and cognitive performance." <i>Nature</i> 404(6776): 352-4.
	C173	Rall, et al. (1982). "Human apolipoprotein E. The complete amino acid sequence." <i>J Biol Chem</i> 257(8): 4171-8.
	C174	Rall, et al. (1982). "Structural basis for receptor binding heterogeneity of apolipoprotein E from type III hyperlipoproteinemic subjects." <i>Proc Natl Acad Sci U S A</i> 79(15): 4696-700.
	C175	Rall, et al. (1983). "Identification of a new structural variant of human apolipoprotein E, E2(Lys146 leads to Gln), in a type III hyperlipoproteinemic subject with the E3/2 phenotype." <i>J Clin Invest</i> 72(4): 1288-97.
	C176	Reiman, et al. (1996). "Preclinical evidence of Alzheimer's disease in persons homozygous for the epsilon 4 allele for apolipoprotein E." <i>N Engl J Med</i> 334(12): 752-8.
	C177	Royston, et al. (1994). "Apolipoprotein E epsilon 2 allele promotes longevity and protects patients with Down's syndrome from dementia." <i>Neuroreport</i> 5(18): 2583-5.
	C178	Sanan, et al. (1994). "Apolipoprotein E associates with beta amyloid peptide of Alzheimer's disease to form novel monofibrils. Isoform apoE4 associates more efficiently than apoE3." <i>J Clin Invest</i> 94(2): 860-9.
	C179	Saunders, et al. (1993). "Apolipoprotein E epsilon 4 allele distributions in late-onset Alzheimer's disease and in other amyloid-forming diseases." <i>Lancet</i> 342(8873): 710-1.
	C180	Saunders, et al. (1993). "Association of apolipoprotein E allele epsilon 4 with late-onset familial and sporadic Alzheimer's disease." <i>Neurology</i> 43(8): 1467-72.
	C181	Schachter, et al. (1994). "Genetic associations with human longevity at the APOE and ACE loci." <i>Nat Genet</i> 6(1): 29-32.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
OK	C182	Schaefer, et al. (1986). "Familial apolipoprotein E deficiency." <i>J Clin Invest</i> 78(5): 1206-19.
	C183	Scherer, et al. (1998). "Cloning of cell-specific secreted and surface proteins by subtractive antibody screening." <i>Nat Biotechnol</i> 16(6): 581-6.
	C184	Schneider, et al. (1981). "Familial dysbetalipoproteinemia. Abnormal binding of mutant apoprotein E to low density lipoprotein receptors of human fibroblasts and membranes from liver and adrenal of rats, rabbits, and cows." <i>J Clin Invest</i> 68(4): 1075-85.
	C185	Slooter, et al. (1996). "APOE genotyping in differential diagnosis of Alzheimer's disease." <i>Lancet</i> 348(9023): 334.
	C186	Smit, et al. (1987). "Familial dysbetalipoproteinemic subjects with the E3/E2 phenotype exhibit an E2 isoform with only one cysteine residue." <i>Clin Genet</i> 32(5): 335-41.
	C187	Smit, et al. (1990). "Genetic heterogeneity in familial dysbetalipoproteinemia. The E2(lys146- ---gln) variant results in a dominant mode of inheritance." <i>J Lipid Res</i> 31(1): 45-53.
	C188	Spring, et al. (1989). "Two contrary functions of tenascin: dissection of the active sites by recombinant tenascin fragments." <i>Cell</i> 59(2): 325-34.
	C189	St Clair, et al. (1995). "Apolipoprotein E epsilon 4 allele is a risk factor for familial and sporadic presenile Alzheimer's disease in both homozygote and heterozygote carriers." <i>J Med Genet</i> 32(8): 642-4.
	C190	St Johnston and Nusslein-Volhard (1992). "The origin of pattern and polarity in the Drosophila embryo." <i>Cell</i> 68(2): 201-19.
	C191	Strittmatter, et al. (1993). "Apolipoprotein E: high-avidity binding to beta-amyloid and increased frequency of type 4 allele in late-onset familial Alzheimer disease." <i>Proc Natl Acad Sci U S A</i> 90(5): 1977-81.
	C192	Sullivan, et al. (1997). "Targeted replacement of the mouse apolipoprotein E gene with the common human APOE3 allele enhances diet-induced hypercholesterolemia and atherosclerosis." <i>J Biol Chem</i> 272(29): 17972-80.
	C193	SWALL (SPTR) Accession Number: O07854 (1-JUL-1997).
	C194	SWALL (SPTR) Accession Number: O09125 (1-JUL-1997).
	C195	SWALL (SPTR) Accession Number: O14546 (1-JAN-1998).
	C196	SWALL (SPTR) Accession Number: O14567 (1-JAN-1998).
	C197	SWALL (SPTR) Accession Number: O88278 (1-NOV-1998).
	C198	SWALL (SPTR) Accession Number: O88492 (1-NOV-1998).
	C199	SWALL (SPTR) Accession Number: P79753 (1-MAY-1997).
	C200	SWALL (SPTR) Accession Number: Q14316 (1-NOV-1996).
	C201	SWALL (SPTR) Accession Number: Q16529 (1-OCT-1994).
	C202	SWALL (SPTR) Accession Number: Q60450 (1-NOV-1996).
	C203	SWALL (SPTR) Accession Number: Q62192 (1-JUN-1998).
	C204	SWALL (SPTR) Accession Number: Q91Z10 (1-DEC-2001).
	C205	SWALL (SPTR) Accession Number: Q92038 (1-JAN-1999).
	C206	SWALL (SPTR) Accession Number: Q923L4 (1-DEC-2001).
	C207	SWALL (SPTR) Accession Number: Q95JH6 (1-DEC-2001).
	C208	SWALL (SPTR) Accession Number: Q95ND7 (1-DEC-2001).
	C209	SWALL (SPTR) Accession Number: Q96A71 (1-DEC-2001).
	C210	SWALL (SPTR) Accession Number: Q96EJ0 (1-OCT-1994).
	C211	SWALL (SPTR) Accession Number: Q96ET1 (1-DEC-2001).

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
CP	C212	SWALL (SPTR) Accession Number: Q96FL6 (1-DEC-2001).
	C213	SWALL (SPTR) Accession Number: Q96J84 (1-DEC-2001).
	C214	SWALL (SPTR) Accession Number: Q96JD6 (1-DEC-2001).
	C215	SWALL (SPTR) Accession Number: Q96JG0 (1-DEC-2001).
	C216	SWALL (SPTR) Accession Number: Q96M90 (1-DEC-2001).
	C217	SWALL (SPTR) Accession Number: Q96Q06 (1-DEC-2001).
	C218	SWALL (SPTR) Accession Number: Q96RU0 (1-DEC-2001).
	C219	SWALL (SPTR) Accession Number: Q96WU8 (1-DEC-2001).
	C220	SWALL (SPTR) Accession Number: Q98MG7 (1-OCT-2001).
	C221	SWALL (SPTR) Accession Number: Q98MG8 (1-OCT-2001).
	C222	SWALL (SPTR) Accession Number: Q99467 (1-JUN-1998).
	C223	SWALL (SPTR) Accession Number: Q99R75 (1-JUN-2001).
	C224	SWALL (SPTR) Accession Number: Q9BRZ4 (1-JUN-2001).
	C225	SWALL (SPTR) Accession Number: Q9BS03 (1-JUN-2001).
	C226	SWALL (SPTR) Accession Number: Q9BU71 (1-JUN-2001).
	C227	SWALL (SPTR) Accession Number: Q9D5Z0 (1-JUN-2001).
	C228	SWALL (SPTR) Accession Number: Q9D8L2 (1-JUN-2001).
	C229	SWALL (SPTR) Accession Number: Q9DBG5 (1-JUN-2001).
	C230	SWALL (SPTR) Accession Number: Q9DCT1 (1-JUN-2001).
	C231	SWALL (SPTR) Accession Number: Q9DER5 (1-MAR-2001).
	C232	SWALL (SPTR) Accession Number: Q9H9N1 (1-MAR-2001).
	C233	SWALL (SPTR) Accession Number: Q9HCU4 (1-MAR-2001).
	C234	SWALL (SPTR) Accession Number: Q9JLC1 (1-OCT-2000).
	C235	SWALL (SPTR) Accession Number: Q9M608 (1-OCT-2000).
	C236	SWALL (SPTR) Accession Number: Q9NVA5 (1-OCT-2000).
	C237	SWALL (SPTR) Accession Number: Q9NYQ7 (1-OCT-2000).
	C238	SWALL (SPTR) Accession Number: Q9P273 (1-OCT-2000).
	C239	SWALL (SPTR) Accession Number: Q9PU86 (1-MAY-2000).
	C240	SWALL (SPTR) Accession Number: Q9PW15 (1-MAY-2000).
	C241	SWALL (SPTR) Accession Number: Q9R0M0 (1-MAY-2000).
	C242	SWALL (SPTR) Accession Number: Q9R1K2 (1-MAY-2000).
	C243	SWALL (SPTR) Accession Number: Q9UJ10 (1-MAY-2000).
	C244	SWALL (SPTR) Accession Number: Q9W6V1 (1-NOV-1999).
	C245	SWALL (SPTR) Accession Number: Q9W6V2 (1-NOV-1999).
	C246	SWALL (SPTR) Accession Number: Q9W7R4 (1-NOV-1999).
	C247	SWALL (SPTR) Accession Number: Q9WTS6 (1-NOV-1999).
	C248	SWALL (SPTR) Accession Number: Q9WTS7 (1-NOV-1999).
	C249	SWALL (SPTR) Accession Number: Q9YGM2 (1-MAY-1999).
	C250	SWALL (SPTR) Accession Number: Q9Z0J8 (30-MAY-2000).

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
CM	C251	SWALL (SPTR) Accession Number: Q9Z1B4 (1-MAY-1999).
	C252	Tabaton, et al. (1995). "Apolipoprotein E epsilon 4 allele frequency is not increased in progressive supranuclear palsy." <i>Neurology</i> 45(9): 1764-5.
	C253	Talbot, et al. (1994). "Protection against Alzheimer's disease with apoE epsilon 2." <i>Lancet</i> 343(8910): 1432-3.
	C254	Tamai, et al. (1997). "Cloning and characterization of a novel human pH-dependent organic cation transporter, OCTN1." <i>FEBS Lett</i> 419(1): 107-11.
	C255	Tang, et al. (1996). "Relative risk of Alzheimer disease and age-at-onset distributions, based on APOE genotypes among elderly African Americans, Caucasians, and Hispanics in New York City." <i>Am J Hum Genet</i> 58(3): 574-84.
	C256	Tomimoto, et al. (1995). "Immunohistochemical study of apolipoprotein E in human cerebrovascular white matter lesions." <i>Acta Neuropathol</i> 90(6): 608-14.
	C257	Usui, et al. (1999). "Flamingo, a seven-pass transmembrane cadherin, regulates planar cell polarity under the control of Frizzled." <i>Cell</i> 98(5): 585-95.
	C258	Utermann, et al. (1979). "Polymorphism of apolipoprotein E. III. Effect of a single polymorphic gene locus on plasma lipid levels in man." <i>Clin Genet</i> 15(1): 63-72.
	C259	Utermann, et al. (1980). "Genetics of the apolipoprotein E system in man." <i>Am J Hum Genet</i> 32(3): 339-47.
	C260	van Bockxmeer and Mamotte (1992). "Apolipoprotein epsilon 4 homozygosity in young men with coronary heart disease." <i>Lancet</i> 340(8824): 879-80.
	C261	van Gool, et al. (1995). "A case-control study of apolipoprotein E genotypes in Alzheimer's disease associated with Down's syndrome. Dutch Study Group on Down's Syndrome and Ageing." <i>Ann Neurol</i> 38(2): 225-30.
	C262	van Ree, et al. (1995). "Inactivation of Apoe and Apoc1 by two consecutive rounds of gene targeting: effects on mRNA expression levels of gene cluster members." <i>Hum Mol Genet</i> 4(8): 1403-9.
	C263	Vogel, et al. (1985). "Human apolipoprotein E expression in Escherichia coli: structural and functional identity of the bacterially produced protein with plasma apolipoprotein E." <i>Proc Natl Acad Sci U S A</i> 82(24): 8696-700.
	C264	Wang, et al. (1998). "Identification of novel stress-induced genes downstream of chop." <i>Embo J</i> 17(13): 3619-30.
	C265	Wang, et al. (2000). "Functional analysis of mutations in the OCTN2 transporter causing primary carnitine deficiency: lack of genotype-phenotype correlation." <i>Hum Mutat</i> 16(5): 401-7.
	C266	Wardell, et al. (1989). "Apolipoprotein E3-Leiden contains a seven-amino acid insertion that is a tandem repeat of residues 121-127." <i>J Biol Chem</i> 264(35): 21205-10.
	C267	Weisgraber, et al. (1981). "Human E apoprotein heterogeneity. Cysteine-arginine interchanges in the amino acid sequence of the apo-E isoforms." <i>J Biol Chem</i> 256(17): 9077-83.
	C268	Weisgraber, et al. (1982). "Abnormal lipoprotein receptor-binding activity of the human E apoprotein due to cysteine-arginine interchange at a single site." <i>J Biol Chem</i> 257(5): 2518-21.
	C269	Whelan (1996). "Selectin synthesis and inflammation." <i>Trends Biochem Sci</i> 21(2): 65-9.
	C270	Wiebusch, et al. (1999). "Further evidence for a synergistic association between APOE epsilon4 and BCHE-K in confirmed Alzheimer's disease." <i>Hum Genet</i> 104(2): 158-63.
	C271	Wootton and Federhen (1996). "Analysis of compositionally biased regions in sequence databases." <i>Methods Enzymol</i> 266: 554-71.
	C272	Wu, et al. (1998). "cDNA sequence, transport function, and genomic organization of human OCTN2, a new member of the organic cation transporter family." <i>Biochem Biophys Res Commun</i> 246(3): 589-95.
	C273	Yoshizawa, et al. (1994). "Dose-dependent association of apolipoprotein E epsilon 4 with late-onset, sporadic Alzheimer's disease." <i>Ann Neurol</i> 36(4): 656-9.
	C274	Zannis, et al. (1981). "Human apolipoprotein E isoprotein subclasses are genetically determined." <i>Am</i>

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
OK		<i>J Hum Genet</i> <u>33</u> (1): 11-24.
	C275	Zhang, et al. (1997). "Cloning and functional expression of a human liver organic cation transporter." <i>Mol Pharmacol</i> <u>51</u> (6): 913-21.
	C276	Zhang, et al. (1992). "Spontaneous hypercholesterolemia and arterial lesions in mice lacking apolipoprotein E." <i>Science</i> <u>258</u> (5081): 468-71.
	C277	Zinszner, et al. (1998). "CHOP is implicated in programmed cell death in response to impaired function of the endoplasmic reticulum." <i>Genes Dev</i> <u>12</u> (7): 982-95.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	11/06/03
-----------------------	---	--------------------	----------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.